

# Methanone, diphenyl-, (2,4-dinitrophenyl)hydrazone

<b>Other names:</b>	Benzophenone, (2,4-dinitrophenyl)hydrazone
<b>Inchi:</b>	InChI=1S/C19H14N4O4/c24-22(25)16-11-12-17(18(13-16)23(26)27)20-21-19(14-7-3-1-4
<b>InchiKey:</b>	JSSSSIRXRJUGAL-UHFFFAOYSA-N
<b>Formula:</b>	C19H14N4O4
<b>SMILES:</b>	O=[N+](O-)c1ccc(NN=C(c2ccccc2)c2ccccc2)c([N+](=O)[O-])c1
<b>Mol. weight [g/mol]:</b>	362.34
<b>CAS:</b>	1733-62-6

## Physical Properties

Property code	Value	Unit	Source
hf	355.54	kJ/mol	Joback Method
hvap	109.05	kJ/mol	Joback Method
log10ws	-6.37		Crippen Method
logp	4.367		Crippen Method
mcvol	257.790	ml/mol	McGowan Method
pc	2179.52	kPa	Joback Method
tb	1154.53	K	Joback Method
tc	1453.67	K	Joback Method

## Sources

<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>
<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C1733626&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C1733626&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci990307l">http://pubs.acs.org/doi/abs/10.1021/ci990307l</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>

## Legend

<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hvap:</b>	Enthalpy of vaporization at standard conditions

<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mcvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature

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